

In the Claims:

1 1. (previously presented) A method of resin-encapsulating an
2 electronic component mounted on a main surface of a board,
3 using a mold pair having an upper mold and a lower mold,
4 comprising the steps of:

5 attaching said board on said upper mold;

6 generating melted resin in a cavity provided in said
7 lower mold solely by melting a solid resin material in said
8 cavity;

9 immersing said electronic component in said melted
10 resin in said cavity by closing said mold pair; and

11 forming a resin molded product including said
12 electronic component encapsulated in a set resin by setting
13 said melted resin in said cavity to produce said set resin
14 only from said melted resin that was generated from said
15 solid resin material in said cavity.

1 2. (previously presented) The method of resin encapsulation
2 according to claim 1, further comprising, before said step
3 of generating melted resin, another step of placing said
4 solid resin material in said cavity.

1 3. (original) The method of resin encapsulation according to
2 claim 1, wherein

3 an electrode of said board and an electrode of said
4 electronic component are connected by a conductive material
5 forming a loop in a prescribed plane; and

6 in said step of immersing said electronic component in
7 said melted resin, said prescribed plane moves
8 substantially vertically to a main surface of said melted
9 resin.

1 4. (original) A method of manufacturing a semiconductor
2 device, using the method of resin encapsulation according
3 to claim 1.

1 5. (previously presented) A method of resin-encapsulating an
2 electronic component mounted on a main surface of a board,
3 using a mold pair having an upper mold and a lower mold and
4 a solid resin material for resin encapsulation, comprising
5 the steps of:

6 placing said board on said lower mold;

7 placing said solid resin material on a main surface of
8 said board such that said solid resin material is not in
9 contact with a conductive material connecting an electrode
10 of said board with an electrode of said electronic
11 component;

12 closing said mold pair to form a mold cavity between
13 said upper and lower molds;

generating melted resin on the main surface of said board and enclosing said electronic component in said melted resin only by heating and melting only said solid resin material in said mold cavity; and

forming a resin mold product by setting only said melted resin that was generated from said solid resin material in said mold cavity.

6. (previously presented) The method of resin encapsulation according to claim 5, wherein

said solid resin material has such a size and a shape that correspond to a size and a shape of said cavity; and said melted resin is generated by heat transmitted from said upper mold to said solid resin material.

7. (previously presented) The method of resin encapsulation according to claim 5, wherein

said solid resin material is formed such that a space formed by said board and said solid resin material encloses said electronic component, when said solid resin material is placed on the main surface of said board; and

said space is set to have such a size that said solid resin material is not in contact with the conductive material connecting the electrode of said board with the electrode of said electronic component.

1 8. (original) A method of manufacturing a semiconductor
2 device, using the method of resin encapsulation according
3 to claim 5.

Claims 9 to 12 (canceled).

1 13. (previously presented) The method of resin encapsulation
2 according to claim 1, wherein said step of placing said
3 solid resin material in said cavity comprises transporting
4 and depositing said solid resin material into said cavity
5 using a vacuum-holding conveyor.

[RESPONSE CONTINUES ON NEXT PAGE]

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